

VOLUMETRIC RATE OF FLOW

Litre/Second L/s	Litre/Minute L/m	Cubic Metre/Hour m3/hr	Cubic Foot/Hour ft3/hr	Cubic Foot/Minute ft3/min	UK Gallon/Minute UK gpm	US Gallon/Minute gpm	US Barrel/Day BPD
1	60	3.6001	127.136	2.1189	13.1986	15.8508	543.456
0.0167	1	0.0600	2.1189	0.3532	0.22	0.2642	9.0576
0.2778	16.6666	1	35.3147	0.5886	3.6662	4.4029	150.956
0.0079	0.4719	0.0283	1	0.0167	0.1038	0.1247	4.2746
0.4719	28.136	1.699	60	1	6.2288	7.4805	256.475
0.0758	4.546	0.2728	9.6326	0.1605	1	1.0201	41.1754
0.0631	3.7853	0.2271	8.0208	0.1337	0.8327	1	34.2857
0.0018	0.1104	0.0066	0.2339	0.0039	0.0243	0.0292	1

MASS RATE OF FLOW

Kilogram/Second kg/s	Kilogram/Hour kg/hr	Pound/Hour lb/hr	Ton/Hour UK t/hr	Tonne/Day t/day
1	3600	7936.64	3.54314	86.4
0.000278	1	2.2046	0.000984	0.024
0.000126	0.4536	1	0.000446	0.0109
0.2822	1016.05	2240	1	24.3852
0.0116	41.6667	91.8592	0.04101	1

JMC Pneumatics

Quality and reliability - every time



Unit & Conversion Factor Table

<p>ATMOSPHERES - atm (Standard at sea-level pressure)</p> <p>x 101.325 = Kilopascals (kPa) absolute</p> <p>x 14.696 = Pounds force per square inch absolute (psia)</p> <p>x 76.00 = Centimetres of mercury (cmHg) at 0 oC</p> <p>x 29.92 = Inches of mercury (inHg) at 0 oC</p> <p>x 33.96 = Feet of water (ftH2O) at 68 oF</p> <p>x 1.01325 = Bars (bar) absolute</p> <p>x 1.0332 = Kilograms-force per square centimetre absolute</p> <p>x 1.0581 = Tons-force per square foot (ton/ft2) absolute</p> <p>x 760 = Torr (torr) (= mmHg at 0oC)</p> <p>BARRELS, LIQUID, US - bbl</p> <p>x 0.11924 = Cubic metres (m3)</p> <p>x 31.5 = U.S. gallons (US gal) liquid</p> <p>BARS - bar</p> <p>x 100 = Kilopascals (kPa)</p> <p>x 14.504 = Pounds-force per square inch (psi)</p> <p>x 33.52 = Feet of water (ftH2O) at 68 oF</p> <p>x 29.53 = Inches of mercury (inHg) at 0 oC</p> <p>x 1.0197 = Kilograms-force per square centimetre (kg/cm2)</p> <p>x 0.98692 = Atmospheres (atm) sea-level standard</p> <p>x 1.0443 = Tons-force per square foot (ton/ft2)</p> <p>x 750.06 = Torr (torr) (= mmHg at 0oC)</p> <p>CENTIMETRES - cm</p> <p>x 0.3937 = Inches (in)</p> <p>CUBIC CENTIMETRES - cm3</p> <p>x 3.5315 x 10-5 = Cubic feet (ft3)</p> <p>x 6.1024 x 10-2 = Cubic inches (in3)</p> <p>x 1.308 x 10-6 = Cubic yards (yd3)</p> <p>x 2.642 x 10-4 = U.S. Gallons (U.S. gal)</p> <p>x 2.200 x 10-4 = Imperial Gallons (imp gal)</p> <p>x 1.000 x 10-3 = Litres (l)</p>	<p>CUBIC FEET - ft3</p> <p>x 0.02832 = Cubic metres (m3)</p> <p>x 2.832x 104 = Cubic centimetres (cm3)</p> <p>x 1728 = Cubic inches (in3)</p> <p>x 0.03704 = Cubic yards (yd3)</p> <p>x 7.481 = U.S. Gallons (U.S. gal)</p> <p>x 6.229 = Imperial Gallons (imp gal)</p> <p>x 28.32 = Litres (l)</p> <p>CUBIC FEET PER MINUTE - cfm</p> <p>x 472.0 = Cubic centimetres per second (cm3/s)</p> <p>x 1.699 = Cubic metres per hour (m3/h)</p> <p>x 0.4720 = Litres per second (l/s)</p> <p>x 0.1247 = U.S. gallons per second (U.S.gps)</p> <p>x 62.30 = Pounds of water per minute (lbH2O/min) at 68 oF</p> <p>CUBIC FEET PER SECOND - cfs</p> <p>x 0.02832 = Cubic metres per second (m3/s)</p> <p>x 1.699 = Cubic metres per minute (m3/min)</p> <p>x 448.8 = U.S. gallons per minute (U.S. gpm)</p> <p>x 0.6463 = Million U.S. gallons per day (U.S.gpd)</p> <p>CUBIC METRES - m3</p> <p>x 1000 = Litres (l)</p> <p>x 35.315 = Cubic feet (ft3)</p> <p>x 61.024x103 = Cubic inches (in3)</p> <p>x 1.308 = Cubic yards (yd3)</p> <p>x 264.2 = U.S. Gallons (U.S. gal)</p> <p>x 220.0 = Imperial Gallons (imp gal)</p> <p>CUBIC METRES PER HOUR- m3/h</p> <p>x 0.2778 = Litres per second (l/s)</p> <p>x 2.778 x 10-4 = Cubic metres per second (m3/s)</p> <p>x 4.403 = U.S. gallon per minute (U.S.gpm)</p> <p>CUBIC METRES PER SECOND- m3/s</p> <p>x 3600 = Cubic metres per hour (m3/h)</p> <p>x 15.85 x 103 = U.S. gallon per minute (U.S.gpm)</p>	<p>GALLONS, U.S. - U.S. gal</p> <p>x 3785.4 = Cubic centimetres (cm3)</p> <p>x 3.7854 = Litres (l)</p> <p>x 3.7854 x 103 = Cubic metres (m3)</p> <p>x 231 = Cubic inches (in3)</p> <p>x 0.13368 = Cubic feet (ft3)</p> <p>x 4.951 x 103 = Cubic yards (yd3)</p> <p>x 0.8327 = Imperial Gallons (imp.gal)</p> <p>x 8.328 = Pounds of water at 60oF in air</p> <p>x 8.337 = Pounds of water at 60oF in vacuo</p> <p>GALLONS, IMPERIAL - imp gal</p> <p>x 4546 = Cubic centimetres (cm3)</p> <p>x 4.546 = Litres (l)</p> <p>x 4.546 x 10-3 = Cubic metres (m3)</p> <p>x 0.16054 = Cubic feet (ft3)</p> <p>x 5.946 x 10-3 = Cubic yards (yd3)</p> <p>x 1.20094 = U.S. Gallons (U.S. gal)</p> <p>x 10.000 = Pounds of water at 62oF in air</p> <p>KILOGRAMS.FORCE PER SQUARE CENTIMETRE - kg/cm2</p> <p>x 98.0700 = Kilopascals (kPa)</p> <p>x 0.9807 = Bars (bar)</p> <p>x 32.870 = Feet of water (ftH2O) at 68oF</p> <p>x 28.96 = Inches of mercury (inHg) at 0oC</p> <p>x 2048 = Pounds. force per square foot (lb/ft2)</p> <p>x 14.223 = Pounds. force per square inch (psi)</p> <p>x 0.9678 = Standard atmospheres</p> <p>KILOPASCALS - kPa</p> <p>x x 103 = Pascals (Pa) or newtons per square metre (N/m2)</p> <p>x 0.1450 = Pounds.force per square inch (psi)</p> <p>x 0.010197 = Kilograms.force per square centimetre (kg/cm2)</p> <p>x 0.2953 = Inches of mercury (inHg) at 32oF</p> <p>x 0.3351 = Feet of water (ftH2O) at 68oF</p>
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Unit & Conversion Factor Table

<p>LITRES - l</p> <p>x 1000 = Cubic centimetres (cm3)</p> <p>x 0.035315 = Cubic feet (ft3)</p> <p>x 61.024 = Cubic inches (in3)</p> <p>x 1.308 x 10-3 = Cubic yards (yd3)</p> <p>x 0.2642 = U.S. Gallons (U.S. gal)</p> <p>x 0.2200 = Imperial gallons (imp gal)</p>	<p>POUNDS-MASS OF WATER AT 60OF</p> <p>x 453.98 = Cubic centimetres (cm3)</p> <p>x 0.45398 = Litres (l)</p> <p>x 0.01603 = Cubic feet (ft3)</p> <p>x 27.70 = Cubic inches (in3)</p> <p>x 0.1199 = U.S. Gallons (U.S. gal)</p>	<p>TONS MASS - tonm long</p> <p>x 1016 = Kilograms (kg)</p> <p>x 2240 = Pounds (lb) av.</p> <p>x 1.1200 = Tons (ton) short</p>
<p>LITRES PER MINUTE - l/min</p> <p>x 0.01667 = Litres per second (l/s)</p> <p>x 5.885 x 10-4 = Cubic feet per second (cfs)</p> <p>x 4.403 x 10-3 = U.S. gallons per second (U.S.gal/s)</p> <p>x 3.666 x 10-3 = Imperial gallons per second (imp gal/s)</p>	<p>POUNDS OF WATER PER MINUTE AT 60OF</p> <p>x 7.576 = Cubic centimetres per second (cm3/ s)</p> <p>x 2.675 x 10-4 = Cubic feet per second(cfs)</p>	<p>TONNES - t metric ton, millier</p> <p>x 1000 = Kilograms (kg)</p> <p>x 2204.6 = Pounds (lb)</p>
<p>LITRES PER SECOND - l/s</p> <p>x 10-3 = Cubic metres per second (m3/s)</p> <p>x 3.600 = Cubic metres per hour (m3/h)</p> <p>x 60 = Litres per minute (l/min)</p> <p>x 15.85 = U.S. Gallons per minute (U.S. gpm)</p> <p>x 13.20 = Imperial gallons per minute (imp gpm)</p>	<p>POUNDS PER CUBIC FOOT - lb/ft3</p> <p>x 16.018 = Kilograms per cubic metre (kg/m3)</p> <p>x 0.016018 = Grams per cubic centimetre (g/cm3)</p> <p>x 5.787 x 10-4 = Pounds per cubic inch (lb/in3)</p>	<p>TONNES.FORCE - tf metric ton-force</p> <p>x 980.7 = Newtons (N)</p>
<p>MEGAPASCALS - Mpa</p> <p>x '106 = Pascals (Pa) or newtons per square metre (N/m2)</p> <p>x '103 = Kilopascals (kPa)</p> <p>x 145.0 = Pounds.force per square inch (psi)</p> <p>x 0.1020 = Kilograms.force per square millimetre (kgf.mm2)</p>	<p>POUNDS.FORCE PER FOOT - lbf/ft</p> <p>x 14.59 = Newtons per metre (N/m)</p> <p>x 1.488 = Kilograms.force per metre (kgf/m)</p> <p>x 14.88 = Grams.force per centimetre (gf/cm)</p>	<p>TONS - ton short</p> <p>x 907.2 = Kilograms (kg)</p> <p>x 0.9072 = Tonnes (t)</p> <p>x 2000 = Pounds (lb) av.</p> <p>x 32000 = Ounces (oz) av.</p> <p>x 2430.6 = Pounds (lb) troy</p> <p>x 0.8929 = Tons (ton) long</p>
<p>NEWTONS - N</p> <p>x 0.10197 = Kilograms.force (kgf)</p> <p>x 0.2248 = Pounds.force (lbf)</p>	<p>POUNDS.FORCE PER SQUARE FOOT - lbf/ft2</p> <p>x 47.88 = Pascals (Pa)</p> <p>x 0.01605 = Feet of water (ftH2O) at 68oF</p> <p>x 4.882 x 10-4 = Kilograms.force per square centimetre (kg/cm2)</p> <p>x 6.944 x 10-3 = Pounds.force per square inch (psi)</p>	<p>TONS OF WATER PER 24 HOURS AT 60OF</p> <p>x 0.03789 = Cubic metres per hour (m3/h)</p> <p>x 83.33 = Pounds of water per hour (lb/hH2O) at 60oF</p> <p>x 0.1668 = U.S. gallons per minute (U.S.gpm)</p> <p>x 1.338 = Cubic feet per hour (cfh) KILOPASCALS - kPa</p> <p>x x 103 = Pascals (Pa) or newtons per square metre (N/m2)</p> <p>x 0.1450 = Pounds.force per square inch (psi)</p> <p>x 0.010197 = Kilograms.force per square centimetre (kg/cm2)</p> <p>x 0.2953 = Inches of mercury (inHg) at 32oF</p> <p>x 0.3351 = Feet of water (ftH2O) at 68oF</p>
<p>PASCALS - Pa</p> <p>x 1 = Newtons per square metre (N/m2)</p> <p>x 1.450 x 10-4 = Pounds.force per square inch (psi)</p> <p>x 1.0197 x 10-5 = Kilograms.force per square centimetre (kg/cm2)</p> <p>x 10-3 = Kilopascals (kPa)</p>	<p>STANDARD CUBIC FEET PER MINUTE - scfm (at 14.696 psia and 60F)</p> <p>x 0.4474 = Litres per second (l/s) at standard conditions (760 mmHg and 0oC)</p> <p>x 1.608 = Cubic metres per hour (m3/h) at standard conditions (760 mmHg and 0oC)</p>	<p>TONNES.FORCE - tf metric ton-force</p> <p>x 980.7 = Newtons (N)</p>